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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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 cccacatttc cattttaat atatactgtg cttacaaat attataatat gttttaaat 180
 40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 ttgaaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt tacccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

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attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg 180

45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

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 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
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 30 ggaagaattg tatgtgggag ttttaatgg tctcatttca ttggctataa ctacgttaca 180
 aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240
 35 agagacaaat ttgtcatca gctagtgatc tgccatacaa ggtgttcctt taatatgtgt 300
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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

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 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa 360
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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
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 tgnaatacta ttgcctetta tatacacnac caannntgcg aagggcnann nnaccttnc 180
 cantnnnctg gggneccacn nnnngnaact gagagtggat ctgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 ntctntcnct ataggeatga ttttnncag tgcgtcagcc tganaanga ancnnacttt 540
 30 tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancacctt tgggtggcngc 600
 agccnttaag ancactnttt ttgggttgcg cntttggatg aattacnaat agnntgtttt 660
 35 gttncaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn 720
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caagtacgcn agcncgtgaan ctaaagcaag caagaaaaag 100

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<212> DNA

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15 <400> 54

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgatgc tgggtgtccaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgcccgaata tctacaatcc aacct 515

35 <210> 55

<211> 176

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

40 agcctgcctt cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
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 <223> n is a, c, g, or t

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 ggatttgggg tttagaggta caattgcctt tttatggta gagaaaggtc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
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 <210> 57
 <211> 209
 <212> DNA
 25 <213> Human

 <400> 57
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 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
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 <210> 58
 <211> 262
 <212> DNA
 40 <213> Human

 <400> 58
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 45 acctgtgcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gagggttgta tggtgatca cactggtccg cctgggtgac 240
 5 agagcgagac tccatctcta at 262

 <210> 59
 <211> 430
 10 <212> DNA
 <213> Human

 <400> 59
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 cccgggggag gggtatccgg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggttttata caaactggga acccactttt gaaaaatttt ggccttttga 240
 tctgggatgg gaatatgagt tttatacat ttcatTTTct tttgggcaa aggcccgtt 300
 aagtattccc ccccgggggg cctttacaaa aagggcggtt taaaagctt ttggccccc 360
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 tgggggcggc 430
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 40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180
 tgattccgaa tcaccacag acagctcgat caccatacgt atcaccaac atatatacct 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgat 300

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<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa ttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta ctattttaa 300

45 ttgttaaaa ttgatattt gatataaaa acttcttttg ccagtgttg tggcacacgc 360

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agtctacaga gcaagttcca ggtagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat atacttcctc ttctttttgc atggctctgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgcccc 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

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<400> 64

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tatatttcaa atgtcttgct aacagtgggt accttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 5 <213> Human

 <400> 65
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 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
 <212> DNA
 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
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 atagctagta aactccccct gt 142
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 <400> 67
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 40 aaagatgata tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca ttctcttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
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 <211> 390
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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 45 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

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 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

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 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 <223> n is a, c, g, or t

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 aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
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 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120
cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180
20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25 <210> 75
<211> 155
<212> DNA
<213> Human

30 <400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120
35 tgagatgaca tgaaataatg aaacgaaatt gaaat 155

40 <210> 76
<211> 367
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cgccatgaaa ttctgctcg attagcttac gttgttgga tagaggcaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatag cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccggttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc tttctcctc 300
 taccattatt gtcactttat gtttgaacc ccctttaccc ttcttaaag gaaaaaagg 360
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30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggtattt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttcctca gaaggacaag agacaaagaa gtggggggagg ccttcctatc catagctgag 180
35 agggtttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact tttagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

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<400> 85

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5 gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

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gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgatccgtct actctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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 5 <213> Human

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acagccaaac cggtcgcccc aaggcctccg tcgttttata atatattccg tttagtata 180

aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240

15 gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300

gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360

20 agaggcggaa tccaaccatt caagagtat aacaagtat cggcactcgg gggatcagaa 420

tataaactta atgtccctt tattctcccg gacgcccctt ttaaccatt ctctctatct 480

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 aattaaggna aggnttaaaa aatttaacca angggggggt taaagggnnt tttttttta 180
 aaaaaaagg ttaaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
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ggaccgggtt ccattttaat gggatttggg aa

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cgttggaac tattaaaaca taagttaat cgttatata aatttaaaa tcaaaaaaa 120

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 40 atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg cccngggntt 180
 naaannnggn nctngggggg ggaaantttt ggcccccccc cgggggnttt nccnaaaaa 240
 aaancnttt naaanacngn nanaatttn cnnnnncggg gagngngga nntttttt 300
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ccnttnnanc ntgggnnttt ttagnccctn aaaaaaangc naatnttaag gtaaaaattn 420

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
30 ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgc 240
canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180
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